

## **ABSTRACT**

Method, system and apparatus for using a mobile phone with GPS receiver attached are provided for navigation operation. The GPS device locates coordinates using the Satellite Positioning System (SPS). An apparatus and method are invented to convert the GPS coordinates into encoded voice prompts, text messages or touch-tone signals. The mobile telephone is used to transmit the encoded coordinates to a GIS server. Based on a pre-configured context, the GIS server is engaged to provide point of interest (POI) GIS information. The predetermined context includes preferences such as destination by name or proximity, language, category class of the destination. Based on the received GPS coordinates and preference context, GIS context is generated and received by the mobile telephone as either voice or text prompts. Thus, the method provides cost effective access to the GIS context using existing mobile telephone infrastructure.